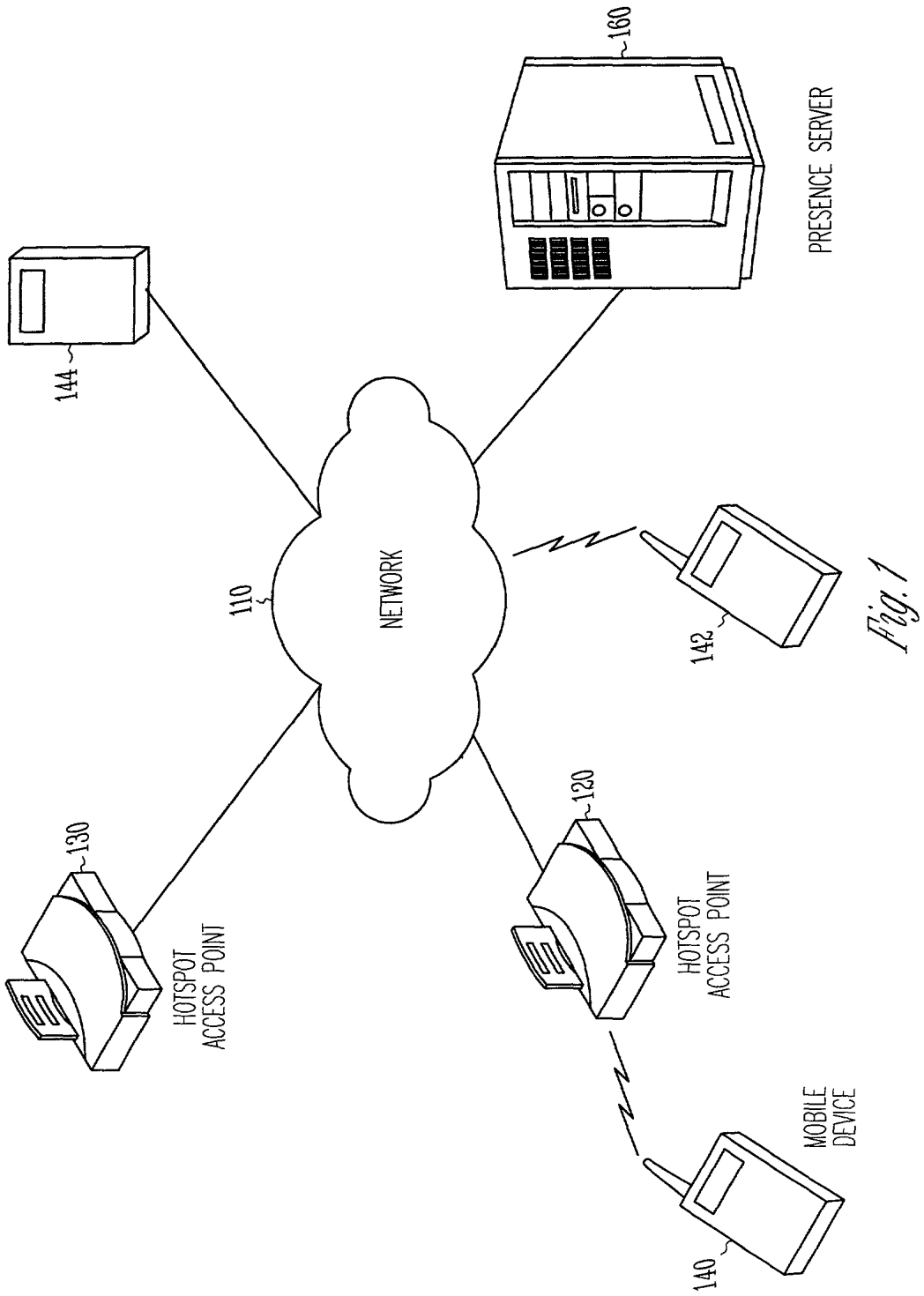
160
PRESENCE SERVER
144
110
NETWORK
142
130
HOTSPOT
ACCESS POINT
120
HOTSPOT
ACCESS POINT
MOBILE
DEVICE
140

Fig. 1

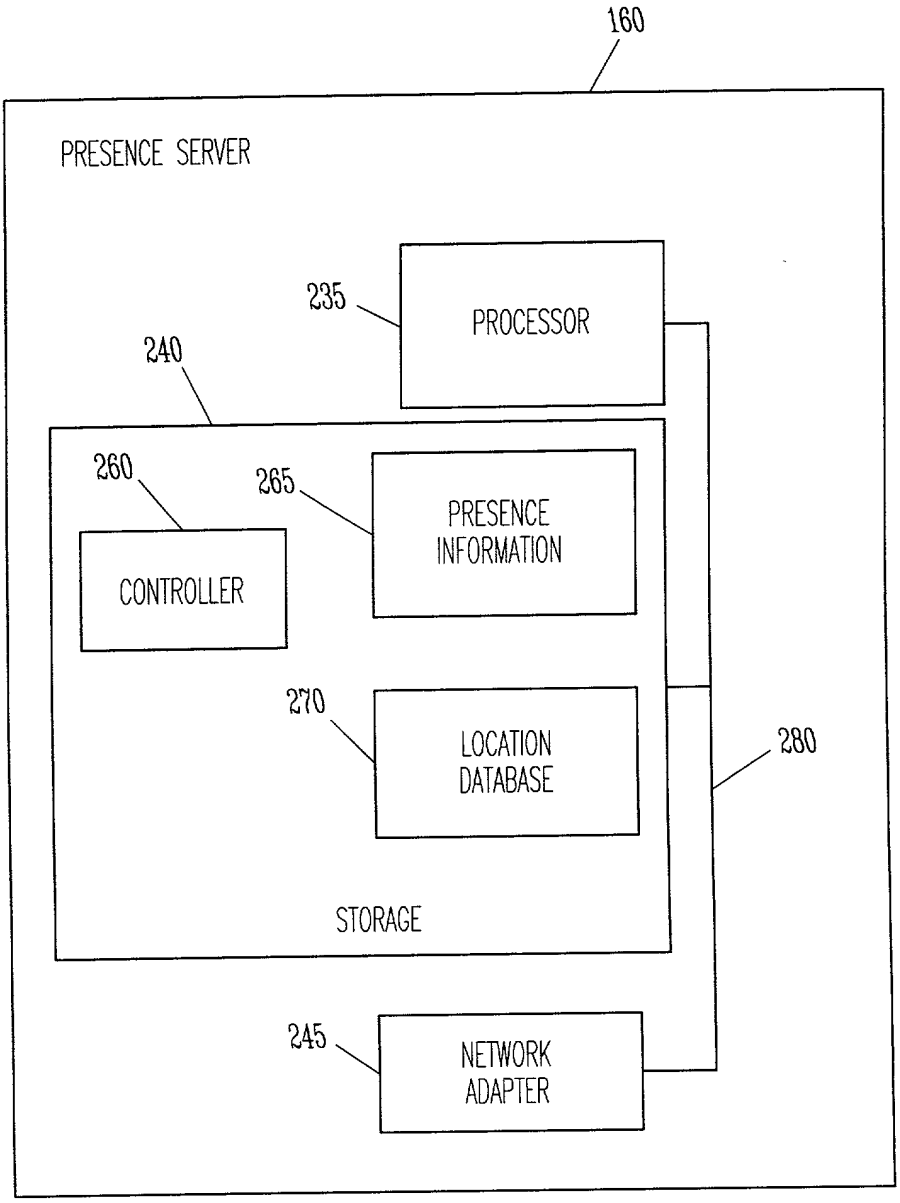
160
PRESENCE SERVER
235
PROCESSOR
240
260
CONTROLLER
265
PRESENCE INFORMATION
270
LOCATION DATABASE
280
STORAGE
245
NETWORK ADAPTER

Fig.2

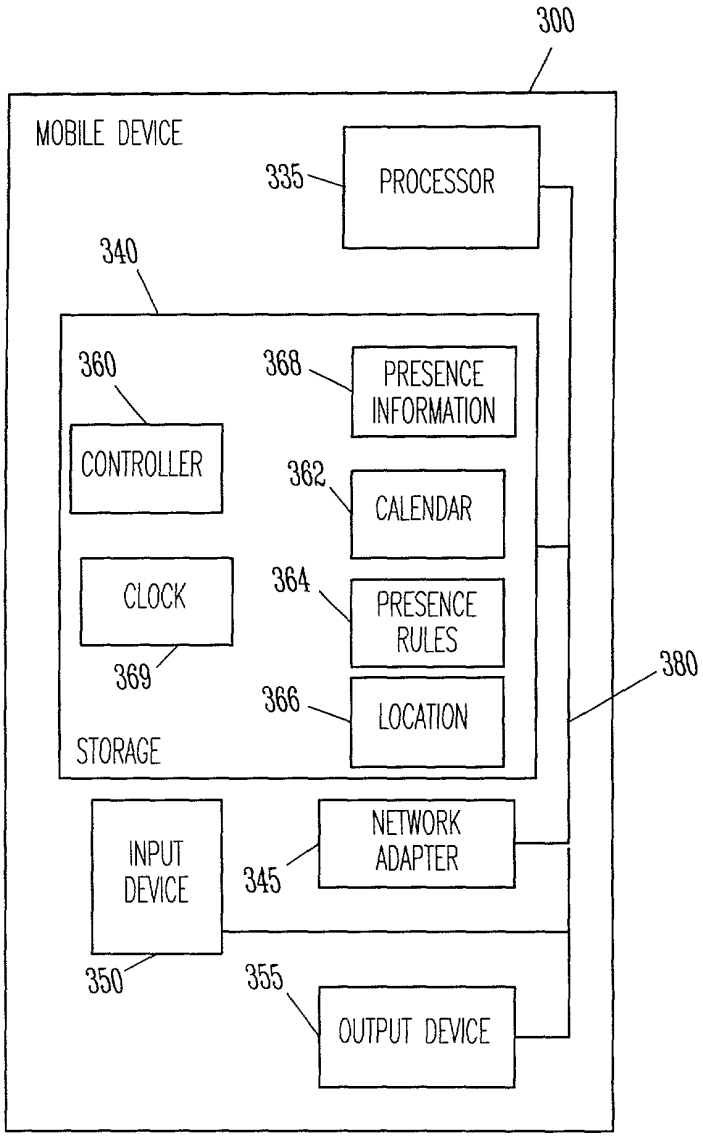
300
MOBILE DEVICE
335
PROCESSOR
340
360
CONTROLLER
368
PRESENCE INFORMATION
362
CALENDAR
CLOCK
369
364
PRESENCE RULES
366
LOCATION
STORAGE
380
INPUT DEVICE
350
345
NETWORK ADAPTER
355
OUTPUT DEVICE

Fig. 3

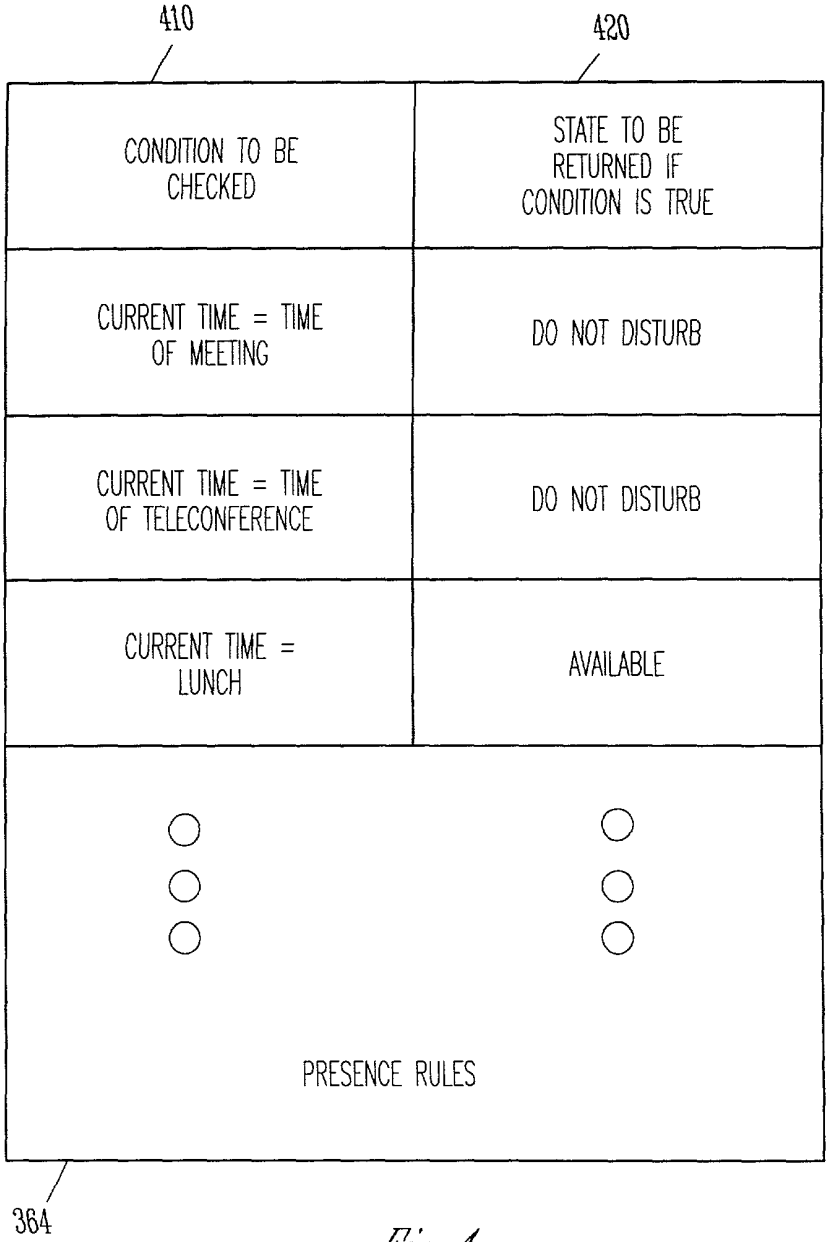
410
420
CONDITION TO BE CHECKED
STATE TO BE RETURNED IF CONDITION IS TRUE
CURRENT TIME = TIME OF MEETING
DO NOT DISTURB
CURRENT TIME = TIME OF TELECONFERENCE
DO NOT DISTURB
CURRENT TIME = LUNCH
AVAILABLE
PRESENCE RULES
364

Fig. 4

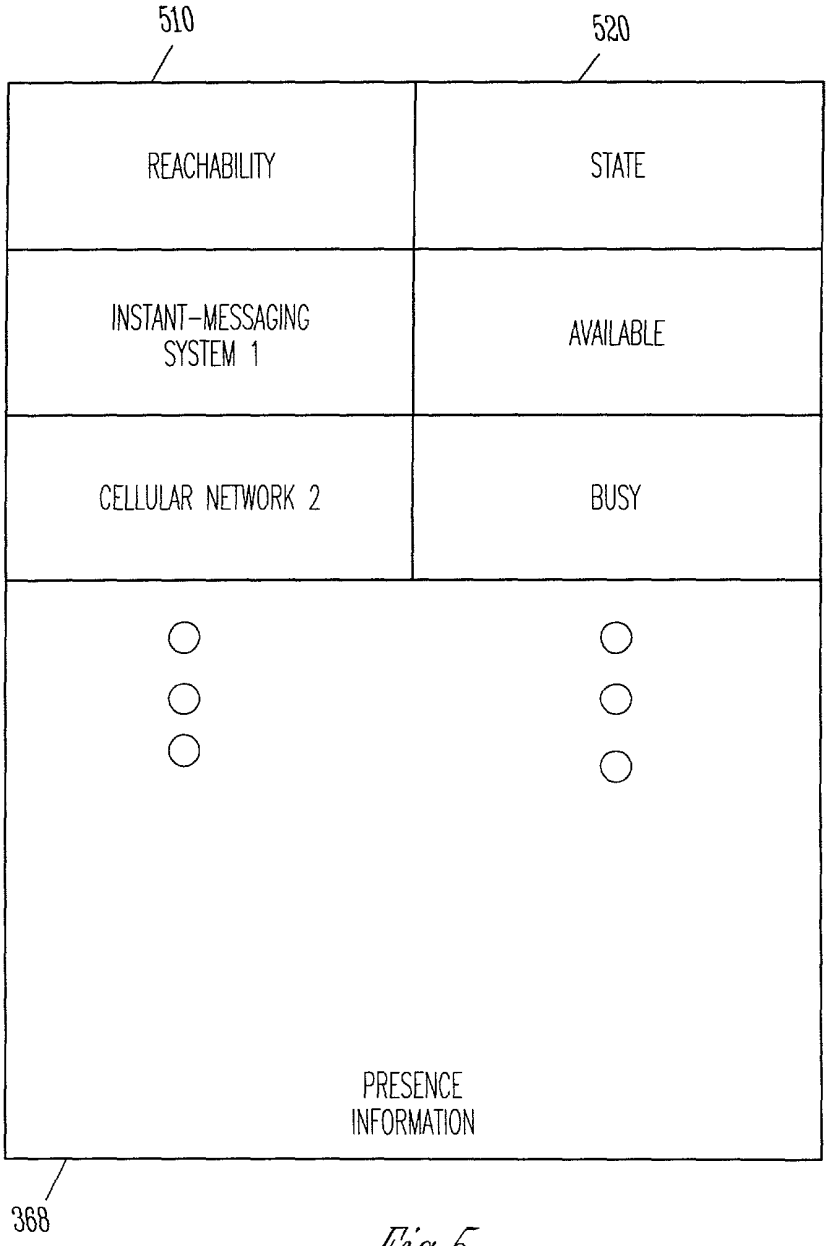
510
520
REACHABILITY
STATE
INSTANT-MESSAGING SYSTEM 1
AVAILABLE
CELLULAR NETWORK 2
BUSY
PRESENCE INFORMATION
368

Fig. 5

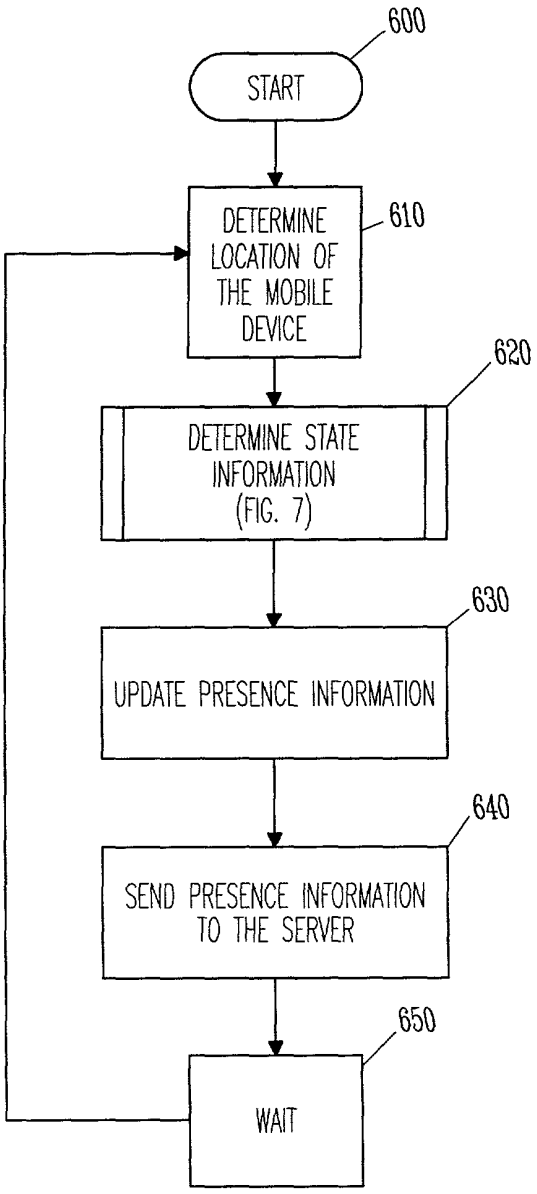
600
START
610
DETERMINE LOCATION OF THE MOBILE DEVICE
620
DETERMINE STATE INFORMATION (FIG. 7)
630
UPDATE PRESENCE INFORMATION
640
SEND PRESENCE INFORMATION TO THE SERVER
650
WAIT

Fig. 6

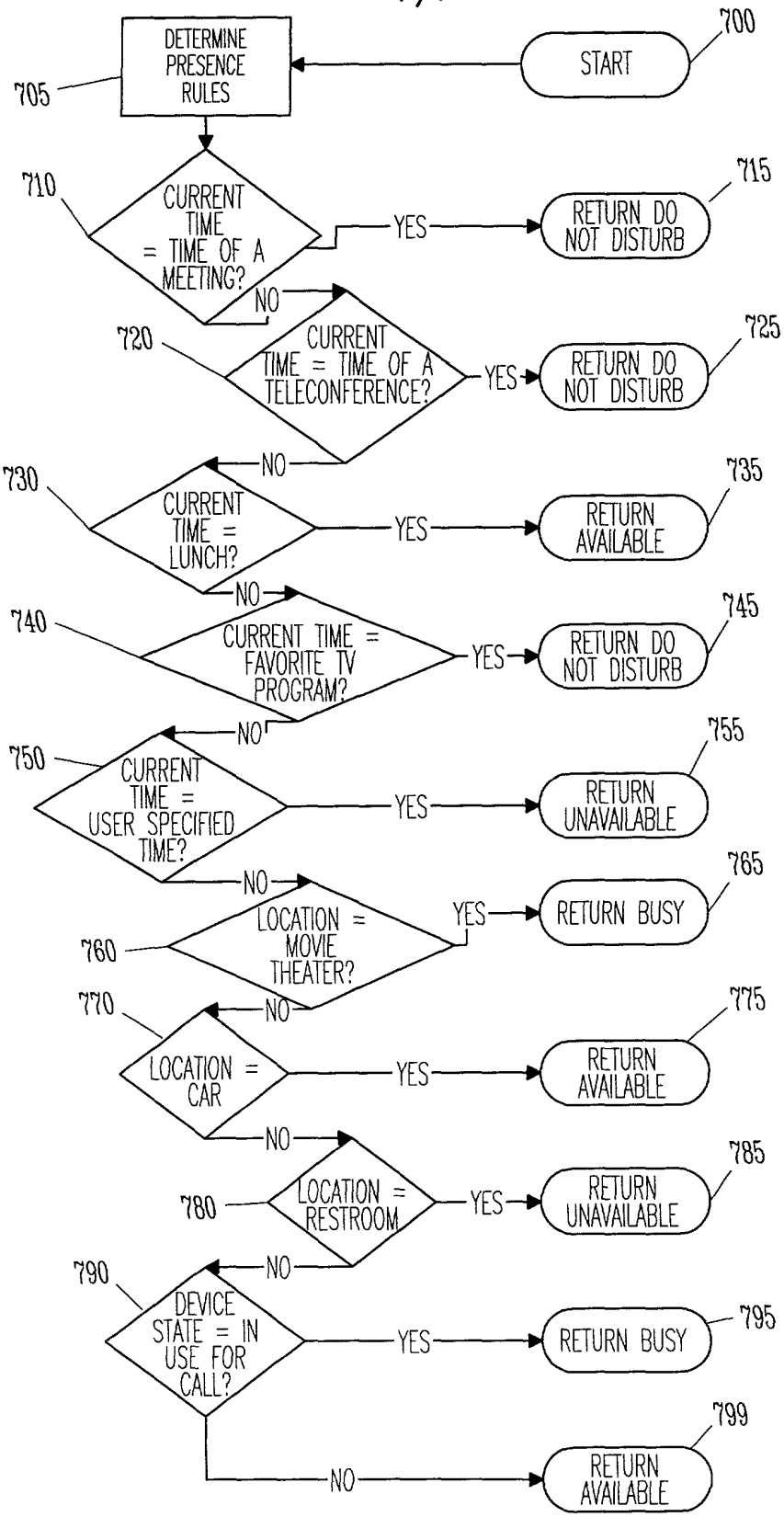
START
700
DETERMINE PRESENCE RULES
705
CURRENT TIME = TIME OF A MEETING?
710
YES
RETURN DO NOT DISTURB
715
NO
CURRENT TIME = TIME OF A TELECONFERENCE?
720
YES
RETURN DO NOT DISTURB
725
NO
CURRENT TIME = LUNCH?
730
YES
RETURN AVAILABLE
735
NO
CURRENT TIME = FAVORITE TV PROGRAM?
740
YES
RETURN DO NOT DISTURB
745
NO
CURRENT TIME = USER SPECIFIED TIME?
750
YES
RETURN UNAVAILABLE
755
NO
LOCATION = MOVIE THEATER?
760
YES
RETURN BUSY
765
NO
LOCATION = CAR
770
YES
RETURN AVAILABLE
775
NO
LOCATION = RESTROOM
780
YES
RETURN UNAVAILABLE
785
NO
DEVICE STATE = IN USE FOR CALL?
790
YES
RETURN BUSY
795
NO
RETURN AVAILABLE
799

Fig. 7